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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/664,818 09/16/2003		09/16/2003	Gordon G. Guay	08935-298001 / M-5032	3443		
26161	7590	06/02/2006		EXAMINER			
FISH & RI		SON PC	CHUO, TONY SHENG HSIANG				
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER		
	•			1745			
				D. (77)	DATE MAN ED 06/00/0006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	No.	Applicant(s)				
Office Action Summary			10/664,818		GUAY, GORDON	G.			
			Examiner		Art Unit				
			Tony Chuo		1746				
Period for F	The MAILING DATE of this communic Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE									
Status									
1)⊠ Re	esponsive to communication(s) filed	d on <i>18 Ma</i>	av 2006.						
• —	This action is FINAL . 2b)⊠ This action is non-final.								
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠ CI	. 4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.									
6)⊠ CI	6)⊠ Claim(s) <u>1-3,5-12 and 14-19</u> is/are rejected.								
7)⊠ CI	☐ Claim(s) <u>4 and 13</u> is/are objected to.								
8) <u></u> CI	aim(s) are subject to restrict	ion and/or	r election rec	uirement.					
Application	Papers								
9)⊠ Th	e specification is objected to by the	Examine	r.						
10)⊠ Th	e drawing(s) filed on 18 May 2006	is/are: a)[accepted	or b)⊠ objected to b	y the Examiner.				
Aŗ	plicant may not request that any objec	tion to the o	drawing(s) be	held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)∐ Th	e oath or declaration is objected to	by the Ex	aminer. Note	the attached Office	Action or form P	TO-152.			
Priority und	der 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
3.	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)									
	f References Cited (PTO-892)		4) Interview Summary Paper No(s)/Mail Da	(PTO-413)				
3) Informat	f Draftsperson's Patent Drawing Review (P ion Disclosure Statement(s) (PTO-1449 or I o(s)/Mail Date			i) Notice of Informal P i) Other:	atent Application (PT	O-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks, filed 5/18/06, with respect to the rejection(s) of claim(s) 1-17 under 35 USC 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Hockaday et al (US 2002/0182459). Claims 1-19 are currently pending.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: on page 13, line 29, thermally insulating walls "12b". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

3. The disclosure is objected to because of the following informalities: on page 7, line 10, the reference number "46b" should be changed to "48b".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-3, 5-12, and 14-15 rejected under 35 U.S.C. 102(a) (e) as being anticipated by Hockaday et al (US 2002/0182459). Regarding claim 1-3, 11, and 15, the Hockaday reference teaches a container comprising a housing "7" containing and in direct contact with a liquid source of an oxidizable fuel having at least a portion of the wall of the housing being comprised of a thermally conductive material that is a metal coating; a fuel egress port "4" supported by the housing; and a surface area enhanced planar vaporization membrane "2" that is a polymer membrane made of silicon rubber residing in the container (See Figure 1, paragraph [0053] & [0066]). Regarding claims 5 and 14, if the walls of the housing was metal coated, then there will be a portion of the housing that is disposed adjacent to the fuel egress port "4" of the container. Regarding

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claims 6-9 and 12, it also teaches a container that is a fuel cartridge or a fuel reservoir containing a source of fuel that is methanol (See Figure 1). Regarding claim 10, it also teaches varying the permeability of the methanol fuel with temperature to enhance the delivery rate of the methanol in the vapor phase across the membrane to deliver the vapor at the egress port of the container (See paragraph [0039]). Therefore, the portion of the wall of the housing that is metal coated will sinks heat to enhance the delivery rate of the methanol.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bourilkov et al (US 2004/0253500) in view of Hockaday et al (US 2002/0182459). The Bourilkov reference teaches a method of disposing a fuel cartridge "38" into compartment "14" of an electronic device "12" where the fuel cartridge is placed in thermal communication with a heat generating component "22" of the electronic device. However, the reference does not expressly teach a fuel cartridge containing methanol with a portion of the wall of the housing comprised of a thermally conductive material. The Hockaday reference teaches a fuel cartridge with the walls of the housing that is metal coated containing a source of fuel that is methanol. Therefore it would have been

obvious to one of ordinary skill in the art at the time the invention was made to modify the Bourilkov electronic device to include a fuel cartridge with the walls of the housing that is metal coated containing a source of fuel that is methanol so that heat generating component of the electronic device increases the vapor pressure of the fuel in the housing to cause the fuel to egress from the cartridge as vapor in order to efficiently

Allowable Subject Matter

utilize the heat generated by the heat generating component of the electronic device.

8. Claims 4 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The Hockaday reference teaches a fuel cartridge having at least a portion of the wall of the housing being comprised of a thermally conducting material but it does not expressly teach the remaining portions of the walls of the housing that are thermally insulating.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Chuo whose telephone number is (571) 272-0717. The examiner can normally be reached on M-F, 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TC

MICHAEL BARR SUPERVISORY PATENT EXAMINER